WEST

Freeform Search

Database: US Patents Full-Text Database; US Pre-Grant Publication Full-Text Database; JPO Abstracts Database; EPO Abstracts Database; Derwent World Patents Index; IBM Technical Disclosure Bulletins

Term: wt-1 and peptid$4 and CD34

Display: 10 **Documents in Display Format:** CIT **Starting with Number** 1

Generate: ○ **Hit List** ◉ **Hit Count** ○ **Image**

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Search History

Today's Date: 10/24/2001

DB Name	Query	Hit Count	Set Name
USPT,PGPB,JPAB,EPAB,DWPI	wt-1 and peptid$4 and CD34	11	L10
USPT,PGPB,JPAB,EPAB,DWPI	(gao) AND (stauss)	1	L9
DWPI	(gao)[IN] AND (stauss)[IN]	1	L8
DWPI	l4 and gao	0	L7
DWPI	l4 and gau	0	L6
DWPI	(Wo000026249)	0	L5
DWPI	(0026249)	45	L4
DWPI	(0026249)[PFAP]	0	L3
DWPI	(9903572)[PFAP]	1	L2
DWPI	(0003572)[PFAP]	0	L1

WEST

Generate Collection

Search Results - Record(s) 1 through 10 of 11 returned.

☐ 1. Document ID: US 6261535 B1

L10: Entry 1 of 11 File: USPT Jul 17, 2001

US-PAT-NO: 6261535
DOCUMENT-IDENTIFIER: US 6261535 B1

TITLE: Diagnostic methods for targeting the vasculature of solid tumors

DATE-ISSUED: July 17, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Thorpe; Philip E.	Dallas	TX		
Burrows; Francis J.	San Diego	CA		

US-CL-CURRENT: 424/1.49; 424/130.1, 424/133.1, 424/142.1, 424/145.1, 424/155.1, 424/156.1, 424/178.1, 424/179.1, 424/181.1, 424/183.1, 424/186.1, 424/9.32, 424/9.323, 424/9.34, 424/9.341, 424/9.36, 424/9.42, 530/387.1 , 530/388.1, 530/388.15, 530/388.22, 530/391.3, 530/391.7

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw Desc | Image

☐ 2. Document ID: US 6190661 B1

L10: Entry 2 of 11 File: USPT Feb 20, 2001

US-PAT-NO: 6190661
DOCUMENT-IDENTIFIER: US 6190661 B1

TITLE: Methods and compositions for the use of apurinic/apyrimidinic endonucleases

DATE-ISSUED: February 20, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kelley; Mark R.	Zionsville	IN		
Duquid; John	Brownsburg	IN		
Eble; John	Indianapolis	IN		

US-CL-CURRENT: 424/139.1; 436/63, 436/64, 514/44

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw Desc | Image

☐ 3. Document ID: US 6070126 A

L10: Entry 3 of 11 File: USPT May 30, 2000

US-PAT-NO: 6070126
DOCUMENT-IDENTIFIER: US 6070126 A

TITLE: Immunobiologically-active linear peptides and method of identification

DATE-ISSUED: May 30, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kokolus; William J.	Kenmore	NY	14217	
Fritsche; Herbert A.	Houston	TX		
Johnston; Dennis A.	Houston	TX		

US-CL-CURRENT: 702/19; 530/300

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw Desc | Image

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☐ 4. Document ID: US 6051230 A

L10: Entry 4 of 11 File: USPT Apr 18, 2000

US-PAT-NO: 6051230
DOCUMENT-IDENTIFIER: US 6051230 A

TITLE: Compositions for targeting the vasculature of solid tumors

DATE-ISSUED: April 18, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Thorpe; Philip E.	Dallas	TX		
Burrows; Francis J.	San Diego	CA		

US-CL-CURRENT: 424/178.1; 424/179.1, 424/180.1, 424/181.1, 424/182.1, 424/183.1, 530/387.1, 530/387.7, 530/388.1, 530/388.2

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw Desc | Image

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☐ 5. Document ID: US 5965132 A

L10: Entry 5 of 11 File: USPT Oct 12, 1999

US-PAT-NO: 5965132
DOCUMENT-IDENTIFIER: US 5965132 A

TITLE: Methods and compositions for targeting the vasculature of solid tumors

DATE-ISSUED: October 12, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Thorpe; Philip E.	Dallas	TX		
Burrows; Francis J.	San Diego	CA		

US-CL-CURRENT: 424/1.49; 424/1.45, 424/139.1, 424/156.1, 424/183.1, 435/70.1, 435/70.2, 530/387.2, 530/391.7, 530/391.9 , 530/807, 530/828

Full | Title | Citation | Front | Review | Classification | Date | Reference | KWIC | Draw Desc | Image

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☐ 6. Document ID: US 5919643 A

L10: Entry 6 of 11 File: USPT Jul 6, 1999

US-PAT-NO: 5919643
DOCUMENT-IDENTIFIER: US 5919643 A

TITLE: Methods and compositions for the use of apurinic/apyrimidinic endonucleases

DATE-ISSUED: July 6, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kelley; Mark R.	Zionsville	IN		
Duguid; John	Brownsburg	IN		
Eble; John	Indianapolis	IN		

US-CL-CURRENT: 435/19; 435/199

Full | Title | Citation | Front | Review | Classification | Date | Reference | KWIC | Draw Desc | Image

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☐ 7. Document ID: US 5863538 A

L10: Entry 7 of 11 File: USPT Jan 26, 1999

US-PAT-NO: 5863538
DOCUMENT-IDENTIFIER: US 5863538 A

TITLE: Compositions for targeting the vasculature of solid tumors

DATE-ISSUED: January 26, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Thorpe; Philip E.	Dallas	TX		
Burrows; Francis J.	San Diego	CA		

US-CL-CURRENT: 424/136.1; 424/138.1, 424/141.1, 424/154.1, 424/155.1, 424/172.1, 424/173.1, 424/174.1, 424/181.1, 530/387.3, 530/387.7, 530/388.22

Full | Title | Citation | Front | Review | Classification | Date | Reference KWIC | Draw Desc | Image

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☐ 8. Document ID: US 5855866 A

L10: Entry 8 of 11 File: USPT Jan 5, 1999

US-PAT-NO: 5855866
DOCUMENT-IDENTIFIER: US 5855866 A

TITLE: Methods for treating the vasculature of solid tumors

DATE-ISSUED: January 5, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Thorpe; Philip E.	Dallas	TX		
Burrows; Francis J.	Dallas	TX		

US-CL-CURRENT: 424/1.49; 424/142.1, 424/155.1, 424/156.1, 424/178.1, 424/181.1, 424/183.1, 530/387.1, 530/388.15, 530/388.22, 530/388.8, 530/391.3, 530/391.7, 530/391.9

Full | Title | Citation | Front | Review | Classification | Date | Reference KWIC | Draw Desc | Image

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☐ 9. Document ID: US 5807978 A

L10: Entry 9 of 11 File: USPT Sep 15, 1998

US-PAT-NO: 5807978
DOCUMENT-IDENTIFIER: US 5807978 A

TITLE: Immunogenic peptides of prostate specific antigen

DATE-ISSUED: September 15, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kokolus; William J.	Houston	TX	77054	
Fritsche; Herbert A.	Houston	TX	77041	
Johnston; Dennis A.	Houston	TX	77062	

US-CL-CURRENT: 530/300; 424/184.1, 424/185.1, 424/277.1, 530/326, 530/327, 530/403

Full | Title | Citation | Front | Review | Classification | Date | Reference | KWIC | Draw Desc | Image

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☐ 10. Document ID: US 5776427 A

L10: Entry 10 of 11 File: USPT Jul 7, 1998

US-PAT-NO: 5776427
DOCUMENT-IDENTIFIER: US 5776427 A

TITLE: Methods for targeting the vasculature of solid tumors

DATE-ISSUED: July 7, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Thorpe; Philip E.	Dallas	TX		
Burrows; Francis J.	San Diego	CA		

US-CL-CURRENT: 424/1.49; 424/138.1, 424/143.1, 424/145.1, 424/178.1, 424/179.1, 424/181.1, 424/183.1, 424/93.21, 530/387.2, 530/388.2, 530/388.73, 530/391.7

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw Desc | Image

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Generate Collection

Terms	Documents
wt-1 and peptid$4 and CD34	11

Display 10 Documents, starting with Document: 11

Display Format: CIT Change Format

WEST

Generate Collection

Search Results - Record(s) 11 through 11 of 11 returned.

☐ 11. Document ID: US 5660827 A

L10: Entry 11 of 11 File: USPT Aug 26, 1997

US-PAT-NO: 5660827
DOCUMENT-IDENTIFIER: US 5660827 A

TITLE: Antibodies that bind to endoglin

DATE-ISSUED: August 26, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Thorpe; Philip E.	Dallas	TX		
Burrows; Francis J.	San Diego	CA		

US-CL-CURRENT: 424/152.1; 424/130.1, 424/138.1, 424/141.1, 530/387.1, 530/388.1

Full | Title | Citation | Front | Review | Classification | Date | Reference | KWIC | Draw Desc | Image

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Terms	Documents
wt-1 and peptid$4 and CD34	11

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Display Format: CIT Change Format

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 NEWS  1          Web Page URLs for STN Seminar Schedule - N. America
 NEWS  2  Dec 17  The CA Lexicon available in the CAPLUS and CA files
 NEWS  3  Feb 06  Engineering Information Encompass files have new names
 NEWS  4  Feb 16  TOXLINE no longer being updated
 NEWS  5  Apr 23  Search Derwent WPINDEX by chemical structure
 NEWS  6  Apr 23  PRE-1967 REFERENCES NOW SEARCHABLE IN CAPLUS AND CA
 NEWS  7  May 07  DGENE Reload
 NEWS  8  Jun 20  Published patent applications (A1) are now in USPATFULL
 NEWS  9  JUL 13  New SDI alert frequency now available in Derwent's
                  DWPI and DPCI
 NEWS 10  Aug 23  In-process records and more frequent updates now in
                  MEDLINE
 NEWS 11  Aug 23  PAGE IMAGES FOR 1947-1966 RECORDS IN CAPLUS AND CA
 NEWS 12  Aug 23  Adis Newsletters (ADISNEWS) now available on STN
 NEWS 13  Sep 17  IMSworld Pharmaceutical Company Directory name change
                  to PHARMASEARCH
 NEWS 14  Oct 09  Korean abstracts now included in Derwent World Patents
                  Index
 NEWS 15  Oct 09  Number of Derwent World Patents Index updates increased
 NEWS 16  Oct 15  Calculated properties now in the REGISTRY/ZREGISTRY File
 NEWS 17  Oct 22  Over 1 million reactions added to CASREACT
 NEWS 18  Oct 22  DGENE GETSIM has been improved

 NEWS EXPRESS  August 15 CURRENT WINDOWS VERSION IS V6.0c,
               CURRENT MACINTOSH VERSION IS V6.0 (ENG) AND V6.0J (JP),
               AND CURRENT DISCOVER FILE IS DATED 07 AUGUST 2001
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COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                       ENTRY    SESSION
FULL ESTIMATED COST                                     0.15       0.15

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=> s wt-1 or (wilms)
L1       24221 WT-1 OR (WILMS)

=> s WT-1
L2       10173 WT-1

=> s l2 (P) CD34
L3           9 L2 (P) CD34

=> dup rem l3
PROCESSING COMPLETED FOR L3
L4             3 DUP REM L3 (6 DUPLICATES REMOVED)

=> dis l4 1-3 ibib abs kwic

L4   ANSWER 1 OF 3     MEDLINE                          DUPLICATE 1
ACCESSION NUMBER:   2001093194     MEDLINE
DOCUMENT NUMBER:    20582378   PubMed ID: 11146163
TITLE:              Simultaneous expression of different immunogenic antigens
                    in acute myeloid leukemia.
AUTHOR:             Greiner J; Ringhoffer M; Simikopinko O; Szmaragowska A;
                    Huebsch S; Maurer U; Bergmann L; Schmitt M
CORPORATE SOURCE:   Third Department of Medicine, University of Ulm, Ulm,
                    Germany.
SOURCE:             EXPERIMENTAL HEMATOLOGY, (2000 Dec) 28 (12) 1413-22.
                    Journal code: EPR. ISSN: 0301-472X.
PUB. COUNTRY:       Netherlands
                    Journal; Article; (JOURNAL ARTICLE)
LANGUAGE:           English
FILE SEGMENT:       Priority Journals
ENTRY MONTH:        200101
ENTRY DATE:         Entered STN: 20010322
                    Last Updated on STN: 20010322
                    Entered Medline: 20010125
```

AB Identification of immunogenic leukemia-associated antigens as target structures is mandatory for specific immunotherapy of leukemia. Here, we define acute myeloid leukemia (AML) antigens eliciting a humoral immune response in the autologous host.We applied the method of serologic screening of cDNA expression libraries with autologous serum (SEREX). To date, this technique has been used to characterize antigen structures in solid tumors. The mRNA expression pattern of these newly in AML isolated antigens and previously described leukemia antigens (PRAME, MAGE-1, and Wt-1) was evaluated by reverse transcriptase polymerase chain reaction. For Wt-1, Western blotting also was performed.Screening of a cDNA expression library prepared from a patient with AML FAB M2 using autologous and allogeneic sera, followed by sequencing of positive clones, yielded three autoantigens (Prp1p/Zer1p, L19H1, and one without homology to previously described genes) and two antigens reactive with allogeneic sera (MAZ, PINCH). PRAME mRNA was expressed in 47% of 34 AML patients, but not in 13 CD34(+) cell samples or in peripheral blood mononuclear cells of 13 healthy volunteers. mRNA expression of MAZ was detected in 44% of AML patients, but only in 8% of healthy donors. Humoral responses to MAZ were detected in 35%. More than 80% of the screened AML patients showed simultaneous expression of two or more of these antigens.Differential expression in AML patients vs healthy volunteers suggests that the immunogenic antigens PRAME and MAZ are potential candidates for immunotherapy in AML.

AB . . . tumors. The mRNA expression pattern of these newly in AML isolated antigens and previously described leukemia antigens (PRAME, MAGE-1, and Wt-1) was evaluated by reverse transcriptase polymerase chain reaction. For Wt-1, Western blotting also was performed.Screening of a cDNA expression library prepared from a patient with AML FAB M2 using autologous. . . reactive with allogeneic sera (MAZ, PINCH). PRAME mRNA was expressed in 47% of 34 AML patients, but not in 13 CD34(+) cell samples or in peripheral blood mononuclear cells of 13 healthy volunteers. mRNA expression of MAZ was detected in 44%. . .

L4 ANSWER 2 OF 3 MEDLINE DUPLICATE 2
ACCESSION NUMBER: 97324127 MEDLINE
DOCUMENT NUMBER: 97324127 PubMed ID: 9180296
TITLE: Establishment and characterization of a new, factor-independent acute myeloid leukemia line designated Ei501.
AUTHOR: Weidmann E; Brieger J; Karakas T; Maurer U; Pascheberg U; Hoelzer D; Mitrou P S; Bergmann L
CORPORATE SOURCE: Medical Clinic III, Department of Internal Medicine, University Hospital, Johann-Wolfgang Goethe University, Frankfurt/M, Germany.
SOURCE: LEUKEMIA, (1997 May) 11 (5) 709-13.
Journal code: LEU; 8704895. ISSN: 0887-6924.
PUB. COUNTRY: ENGLAND: United Kingdom
Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 199706
ENTRY DATE: Entered STN: 19970709
Last Updated on STN: 19970709
Entered Medline: 19970626

AB We established a factor-independent acute myeloid leukemia cell line, designated Ei501. The line has been growing in RPMI 1640 media for 18 months and can be maintained without addition of growth factors. Ei501 is positive for myeloperoxidase and negative for esterase and PAS. Cytogenetic analysis revealed the FAB M3 associated t(15;17) translocation and a translocation of the chromosomes 7 and 8: 46 XX, -7, +t(7;8)(q32;q13), t(15;17)(q22;q12). This karyotype was confirmed by fluorescence in situ hybridization. Ei501 cells express AML-associated surface markers such as CD13, CD33 and CD38. Although 42% of the patient's blast cells were CD34-positive, the line lacks surface expression of CD34. Furthermore the line has a number of characteristics which are detectable in blasts from AML patients, such as surface adhesion molecules, cytokines such as TGF-beta, cytokine receptors such as the IL-2 receptor beta and gamma chains or the IL-4 receptor and the genes for the transcription factor wt-1 (Wilms' tumor gene) and for the proto-oncogene bcl-2, both shown to be present in the majority of patients with AML. Additionally the line can be used as target in cytotoxicity assays using IL-2 activated cytotoxic lymphocytes as effector cells. In conclusion, besides a rare karyotype the Ei501 cell line has several features common in AML, and may therefore be used as a model to study pathogenetic mechanisms in acute myeloid leukemia.

AB . . . Ei501 cells express AML-associated surface markers such as CD13, CD33 and CD38. Although 42% of the patient's blast cells were CD34 -positive, the line lacks surface expression of CD34. Furthermore the line has a number of characteristics which are detectable in blasts from AML patients, such as surface adhesion. . . such as the IL-2 receptor beta and gamma chains or the IL-4 receptor and the genes for the transcription factor wt-1 (Wilms' tumor gene) and for the proto-oncogene bcl-2, both shown to be present in the majority of patients with AML.. . .

L4 ANSWER 3 OF 3 MEDLINE DUPLICATE 3
ACCESSION NUMBER: 96119558 MEDLINE
DOCUMENT NUMBER: 96119558 PubMed ID: 8589020
TITLE: The Wilms' tumor gene is frequently expressed in acute myeloblastic leukemias and may provide a marker for residual blast cells detectable by PCR.
AUTHOR: Brieger J; Weidmann E; Maurer U; Hoelzer D; Mitrou P S; Bergmann L
CORPORATE SOURCE: Medical Clinic III, Hematology-Oncology, J. W. Goethe University, Frankfurt/M., Germany.
SOURCE: ANNALS OF ONCOLOGY, (1995 Oct) 6 (8) 811-6.
Journal code: AYF; 9007735. ISSN: 0923-7534.
PUB. COUNTRY: Netherlands
Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 199603
ENTRY DATE: Entered STN: 19960404
Last Updated on STN: 20000303
Entered Medline: 19960327

AB BACKGROUND: The tumor suppressor gene wt-1 was isolated by cytogenetic deletion analysis of patients with Wilms' tumor (wt-1). This gene encodes for a zinc finger DNA-binding protein with transcription-repressing properties. During normal ontogenesis it is expressed in a time- and tissue-dependent manner mainly in the kidneys and gonads. Recently, the expression of wt-1 in acute leukemias (AL) was reported. Here we investigated the

prognostic potential of wt-1 mRNA expression during
the course of the disease using the PCR technique. PATIENTS AND METHODS:
Blast cells from 83 patients with newly diagnosed AML and 20 AML patients
during follow-up in complete remission were analyzed for wt-
1 mRNA expression. Peripheral blood mononuclear cells (PBMNC) and
bone marrow (BM) from healthy persons (n = 13) and sorted CD34
-positive cells from normal donors (n = 4) were used as negative controls.
RESULTS: Wt-1-specific m-RNA was detectable in 67/83
(81%) patients with AML. Normal donors did not express wt-
1 m-RNA but in 1/4 sorted CD34+ cell samples a weak
amplified product was observed. After achieving cytological CR 14/20
studied patients lost wt-1 expression. In 7/8 patients
in morphological CR the reappearance of wt-1
expression preceded relapse of the disease, in 1/8 patients wt-
1 remained positive in CR. Response to therapy, disease-free
survival, overall survival and FAB-subtype did not correlate with
wt-1 m-RNA expression in newly diagnosed AML before
therapy. CONCLUSIONS: In the majority of acute leukemias wt-
1 is expressed and probably blast cell-associated, at least in
levels detectable by PCR. Wt-1 mRNA was detectable in
bone marrow cells of AML patients in clinical CR. The results strongly
suggest that the persistence or reappearance of wt-1
predicts relapse of the disease prior to morphological relapse.
AB BACKGROUND: The tumor suppressor gene wt-1 was
isolated by cytogenetic deletion analysis of patients with Wilms' tumor (
wt-1). This gene encodes for a zinc finger DNA-binding
protein with transcription-repressing properties. During normal
ontogenesis it is expressed in a time- and tissue-dependent manner mainly
in the kidneys and gonads. Recently, the expression of wt-
1 in acute leukemias (AL) was reported. Here we investigated the
prognostic potential of wt-1 mRNA expression during
the course of the disease using the PCR technique. PATIENTS AND METHODS:
Blast cells from 83 patients with newly diagnosed AML and 20 AML patients
during follow-up in complete remission were analyzed for wt-
1 mRNA expression. Peripheral blood mononuclear cells (PBMNC) and
bone marrow (BM) from healthy persons (n = 13) and sorted CD34
-positive cells from normal donors (n = 4) were used as negative controls.
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(81%) patients with AML. Normal donors did not express wt-
1 m-RNA but in 1/4 sorted CD34+ cell samples a weak
amplified product was observed. After achieving cytological CR 14/20
studied patients lost wt-1 expression. In 7/8 patients
in morphological CR the reappearance of wt-1
expression preceded relapse of the disease, in 1/8 patients wt-
1 remained positive in CR. Response to therapy, disease-free
survival, overall survival and FAB-subtype did not correlate with
wt-1 m-RNA expression in newly diagnosed AML before
therapy. CONCLUSIONS: In the majority of acute leukemias wt-
1 is expressed and probably blast cell-associated, at least in
levels detectable by PCR. Wt-1 mRNA was detectable in
bone marrow cells of AML patients in clinical CR. The results strongly
suggest that the persistence or reappearance of wt-1
predicts relapse of the disease prior to morphological relapse.

```
=> dis his

     (FILE 'HOME' ENTERED AT 19:59:20 ON 24 OCT 2001)

     FILE 'MEDLINE, CAPLUS, EMBASE, BIOSIS' ENTERED AT 19:59:31 ON 24 OCT 2001
L1        24221 S WT-1 OR (WILMS)
L2        10173 S WT-1
L3            9 S L2 (P) CD34
L4            3 DUP REM L3 (6 DUPLICATES REMOVED)

=> s l2 (P) (cancer or leukemia or CML or AML)
L5          147 L2 (P) (CANCER OR LEUKEMIA OR CML OR AML)

=> dup rem l5
PROCESSING COMPLETED FOR L5
L6          100 DUP REM L5 (47 DUPLICATES REMOVED)

=> s l6 (P) peptid
<------User Break------>

=> s l6 (P) peptide?
L7            5 L6 (P) PEPTIDE?

=> dis l7 1-5 ibib abs kwic

L7   ANSWER 1 OF 5  CAPLUS  COPYRIGHT 2001 ACS
ACCESSION NUMBER:         2000:314730  CAPLUS
DOCUMENT NUMBER:          132:333396
TITLE:                    Immunotherapy of cancer using epitopes of WT-1 and
                          GATA-1 transcription factors
INVENTOR(S):              Stauss, Hans Josef; Gao, Liquan
PATENT ASSIGNEE(S):       Imperial College Innovations Limited, UK
SOURCE:                   PCT Int. Appl., 93 pp.
                          CODEN: PIXXD2
DOCUMENT TYPE:            Patent
LANGUAGE:                 English
FAMILY ACC. NUM. COUNT:   1
PATENT INFORMATION:

     PATENT NO.        KIND  DATE           APPLICATION NO.  DATE
     ---------------   ----  --------       ---------------  --------
     WO 2000026249      A1   20000511       WO 1999-GB3572   19991102
         W:  AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU,
             CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL,
             IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA,
             MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI,
             SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM,
             AZ, BY, KG, KZ, MD, RU, TJ, TM
         RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE,
             DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF,
             CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
     AU 9964797         A1   20000522       AU 1999-64797    19991102
     EP 1127068         A1   20010829       EP 1999-952682   19991102
         R:  AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
             IE, SI, LT, LV, FI, RO
PRIORITY APPLN. INFO.:                    GB 1998-23897    A  19981102
                                          WO 1999-GB3572   W  19991102
AB   The authors disclose that the peptides RMFPNAPYL or CMTWNQMNL
```

are epitopes for cytotoxic T-cells recog[redacted]g **WT-1** in an HLA-A2-restricted manner. In addn. the **peptide** is HLMPFPGPLL is a CTL epitope of human GATA-1 transcription factor. The **peptides**, and polynucleotides encoding them, may be useful as **cancer** vaccines.

REFERENCE COUNT: 3
REFERENCE(S): (1) Anon; J BIOL CHEM
(2) Massachusetts Inst Technology; WO 9107509 A 1991 CAPLUS
(3) Wistar Inst; WO 9529995 A 1995 CAPLUS

AB The authors disclose that the **peptides** RMFPNAPYL or CMTWNQMNL are epitopes for cytotoxic T-cells recognizing **WT-1** in an HLA-A2-restricted manner. In addn. the **peptide** is HLMPFPGPLL is a CTL epitope of human GATA-1 transcription factor. The **peptides**, and polynucleotides encoding them, may be useful as **cancer** vaccines.

IT **Peptides**, biological studies
RL: BAC (Biological activity or effector, except adverse); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(of **WT-1** and GATA-1 transcription factors for immunotherapy of **cancer**)

IT **Peptides**, biological studies
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(retro-inverso; for epitopes of GATA-1 and **WT-1** transcription factors in relation to immunotherapy of **cancer**)

L7 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2001 ACS
ACCESSION NUMBER: 1995:341423 CAPLUS
DOCUMENT NUMBER: 122:129828
TITLE: Phenotypic changes induced in small cell lung carcinoma cells by overexpression of myc and ras oncogenes
AUTHOR(S): Buerger, Christiane; Scheffler, Sonja; Elsasser, Hans-Peter; Adamkiewicz, Juergen
CORPORATE SOURCE: Institut Molekularbiologie und Tumorforschung, Philipps-Universitaet, Marburg, D-35037, Germany
SOURCE: Mol. Cell. Differ. (1994), 2(4), 373-98
CODEN: MCDIEL; ISSN: 1065-3074
DOCUMENT TYPE: Journal
LANGUAGE: English

AB Overexpression of c-myc and activated H-ras oncogenes in the small-cell lung carcinoma (SCLC) cell lines NCI-N592 and NCI-H69 caused characteristic phenotypic changes in these cells, supporting the hypothesis that a transition from an SCLC to an non-small-cell lung carcinoma (NSCLC) large-cell carcinoma phenotype was induced. To obtain more detailed information about this process, the authors compared in c-myc- and activated H-ras-transfected cells and in the corresponding parental cells the expression or activity of both new and established lung **cancer** cell type-specific markers. The transfected cells lost SCLC-specific TRE-binding activity detectable in electrophoretic mobility shift assays and showed a higher expression of the tumor suppressor genes Rb-1 and **Wt-1** characteristic for NSCLC cell lines. Furthermore, they expressed an NSCLC large-cell undifferentiated lung carcinoma cell-specific OTF-2/Oct-2 RNA. The expression of most known SCLC-specific marker genes remained unchanged, which is in agreement with the frequent detection of neuroendocrine markers in large-cell carcinomas. However, the gene encoding gastrin-releasing **peptide** was down regulated in the transfected cells. Most of these changes were detectable in transfected cells in vitro as well as in nude mouse tumors, thus excluding cell culture artifacts. Apparently, the authors have identified early markers of a cell type transition pathway that might help to define an initial phase in the progression toward a treatment-resistant tumor state occurring in more than 90% of SCLCs.

AB Overexpression of c-myc and activated H-ras oncogenes in the small-cell lung carcinoma (SCLC) cell lines NCI-N592 and NCI-H69 caused characteristic phenotypic changes in these cells, supporting the hypothesis that a transition from an SCLC to an non-small-cell lung carcinoma (NSCLC) large-cell carcinoma phenotype was induced. To obtain more detailed information about this process, the authors compared in c-myc- and activated H-ras-transfected cells and in the corresponding parental cells the expression or activity of both new and established lung **cancer** cell type-specific markers. The transfected cells lost SCLC-specific TRE-binding activity detectable in electrophoretic mobility shift assays and showed a higher expression of the tumor suppressor genes Rb-1 and **Wt-1** characteristic for NSCLC cell lines. Furthermore, they expressed an NSCLC large-cell undifferentiated lung carcinoma cell-specific OTF-2/Oct-2 RNA. The expression of most known SCLC-specific marker genes remained unchanged, which is in agreement with the frequent detection of neuroendocrine markers in large-cell carcinomas. However, the gene encoding gastrin-releasing **peptide** was down regulated in the transfected cells. Most of these changes were detectable in transfected cells in vitro as well as in nude mouse tumors, thus excluding cell culture artifacts. Apparently, the authors have identified early markers of a cell type transition pathway that might help to define an initial phase in the progression toward a treatment-resistant tumor state occurring in more than 90% of SCLCs.

L7 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2001 ACS
ACCESSION NUMBER: 1985:503357 CAPLUS
DOCUMENT NUMBER: 103:103357
TITLE: Preparation of antibodies to human leukemia virus
PATENT ASSIGNEE(S): Japanese Foundation for Cancer Research, Japan; Otsuka Pharmaceutical Co., Ltd.
SOURCE: Jpn. Kokai Tokkyo Koho, 20 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 60067432	A2	19850417	JP 1983-176079	19830922
JP 04079356	B4	19921215		

AB Antibodies to human **leukemia** virus are isolated from blood serum of mammals immunized by complexes consisting of human **leukemia** virus-related **peptides** and carriers. Thus, a procedure is described for the prepn. of H-Tyr-Val-Glu-Pro-Thr-Ala-Pro-Gln-Val-Leu-OH. An immune antigen is prepd. by forming complexes of the **peptide** with Ascaris exts. (av. mol. **wt.** 1 .times. 105) used as carriers. The antigen is administered to rabbits, and the antibodies are isolated from the serum.

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L7 ANSWER 4 OF 5 BIOSIS COPYRIGHT 2001 BIOSIS
ACCESSION NUMBER: 2001:293494 BIOSIS
DOCUMENT NUMBER: PREV200100293494
TITLE: Immunoresponse to Wilms tumor antigen-1 (WT-1) in CML patients.
AUTHOR(S): Bellantuono, Ilaria (1); Macchiarulo, Eugenio (1); Gao, Liquan (1); Dazzi, Francesco; Cerundolo, Vincenzo; Marley, Stephen B.; Gordon, Myrtle Y.; Goldman, John M.; Stauss, Hans J. (1)
CORPORATE SOURCE: (1) Immunology, ICSM Hammersmith Hospital, London UK
SOURCE: Blood, (November 16, 2000) Vol. 96, No. 11 Part 1, pp. 144a. print.
Meeting Info.: 42nd Annual Meeting of the American Society of Hematology San Francisco, California, USA December 01-05, 2000 American Society of Hematology
. ISSN: 0006-4971.
DOCUMENT TYPE: Conference
LANGUAGE: English
SUMMARY LANGUAGE: English

AB We have previously characterised the **WT-1** HLA-A2.1 restricted **peptide** epitope p126-134 and shown that allorestricted CTLs recognising specifically the p126-134 epitope were able efficiently and selectively to lyse **CML** progenitor cells. The aim of the present study is to investigate whether an immunoresponse to the **WT-1** p126 epitope is present in **CML** patients. Tetramers specific for the p126 **peptide** epitope were used to quantify the frequency of **WT-1** specific CD8 T cells ex vivo from freshly separated PBMC of **CML** patients and normal donors. CTL cell lines raised against the p126 **peptides** stained brightly with the fluorescent p126 tetramers and no staining was seen when irrelevant tetramers were used instead. This indicates that the tetrameric complexes selectively stain **WT-1** p126 specific CTLs. **CML** patients and normal donors were selected for the study on the basis of the expression of the HLA-A2.1 allele. PBMC from 10 HLA-A2.1 positive **CML** patients (4 IFN, 3 post-BMT, 2 post-DLI and 1 HU) and 7 HLA-A2 negative **CML** controls (4 HU, 2 post-BMT and 1 IFN) were triple stained with anti-CD8, anti-CD4 mAbs and with the p126 tetrameric complexes. In two out of 10 HLA-A2.1 positive **CML** cells 0.04% of CD8+ cells stained with the tetramer, equivalent to a frequency of 1:2500 CD8+ T cells. This exceeded the background level of 0.03% in circulating CD8+ cells observed in the control group of HLA-A2 negative **CML** patients and in HLA-A2 positive PBMC in normal donors (5 donors examined). The present tetramer data are compatible with a lack of CTL responses to the **WT-1** p126 epitope or with a low frequency of specific CTLs in **CML** patients. Ongoing functional experiments will show whether p126 responsive CTLs can be isolated from HLA-A2.1 positive **CML** patients. These experiments will determine whether the p126 epitope can be used for vaccination strategies aimed at expanding autologous CTLs, or whether strategies based on allo-restricted CTLs will be required to overcome poor autologous T cell responses.
AB We have previously characterised the **WT-1** HLA-A2.1 restricted **peptide** epitope p126-134 and shown that allorestricted CTLs recognising specifically the p126-134 epitope were able efficiently and selectively to lyse **CML** progenitor cells. The aim of the present study is to investigate whether an immunoresponse to the **WT-1** p126 epitope is present in **CML** patients. Tetramers specific for the p126 **peptide** epitope were used to quantify the frequency of **WT-1** specific CD8 T cells ex vivo from freshly separated PBMC of **CML** patients and normal donors. CTL cell lines raised against the p126 **peptides** stained brightly with the fluorescent p126 tetramers and no staining was seen when irrelevant tetramers were used instead. This indicates that the tetrameric complexes selectively stain **WT-1** p126 specific CTLs. **CML** patients and normal donors were selected for the study on the basis of the expression of the HLA-A2.1 allele. PBMC from 10 HLA-A2.1 positive **CML** patients (4 IFN, 3 post-BMT, 2 post-DLI and 1 HU) and 7 HLA-A2 negative **CML** controls (4 HU, 2 post-BMT and 1 IFN) were triple stained with anti-CD8, anti-CD4 mAbs and with the p126 tetrameric complexes. In two out of 10 HLA-A2.1 positive **CML** cells 0.04% of CD8+ cells stained with the tetramer, equivalent to a frequency of 1:2500 CD8+ T cells. This exceeded the background level of 0.03% in circulating CD8+ cells observed in the control group of HLA-A2 negative **CML** patients and in HLA-A2 positive PBMC in normal donors (5 donors examined). The present tetramer data are compatible with a lack of CTL responses to the **WT-1** p126 epitope or with a low frequency of specific CTLs in **CML** patients. Ongoing functional experiments will show whether p126 responsive CTLs can be isolated from HLA-A2.1 positive **CML** patients. These experiments will determine whether the p126 epitope can be used for vaccination strategies aimed at expanding autologous CTLs,. . .

L7 ANSWER 5 OF 5 BIOSIS COPYRIGHT 2001 BIOSIS
ACCESSION NUMBER: 2000:94441 BIOSIS
DOCUMENT NUMBER: PREV200000094441
TITLE: HLA class I-restricted lysis of leukemia cells by a CD8+ cytotoxic T-lymphocyte clone specific for WT1 peptide.
AUTHOR(S): Ohminami, Hideki; Yasukawa, Masaki (1); Fujita, Shigeru
CORPORATE SOURCE: (1) First Department of Internal Medicine, Ehime University School of Medicine, Shigenobu, Ehime, 791-0295 Japan
SOURCE: Blood, (Jan. 1, 2000) Vol. 95, No. 1, pp. 286-293.
ISSN: 0006-4971.
DOCUMENT TYPE: Article
LANGUAGE: English
SUMMARY LANGUAGE: English

AB The Wilms tumor (WT1) gene has been reported to be preferentially expressed in acute leukemia cells, regardless of leukemia subtype and chronic myelogenous leukemia cells in blast crisis, but not in normal cells. This finding suggests strongly that WT1 protein is a potential target of immunotherapy for human leukemia. In this study, we established a CD8+ cytotoxic T-lymphocyte (CTL) clone directed against a WT1-derived peptide and examined its immunologic actions on leukemia cells. A CD8+ CTL clone, designated TAK-1, which lysed autologous cells loaded with a WT1-derived 9-mer peptide consisting of the HLA-A24 (HLA-A*2402)-binding motifs was established by stimulating CD8+ T lymphocytes from a healthy

individual repeatedly with WT1 peptide-pu[redacted] autologous dendritic cells. TAK-1 was cytotoxic to HLA-A24-positive leukemia cells expressing WT1, but not to HLA-A24-positive lymphoma cells that did not express WT1, HLA-A24-negative leukemia cells, or HLA-A24-positive normal cells. Treating leukemia cells with an antisense oligonucleotide complementary to the WT1 gene resulted in reduced TAK-1-mediated cytotoxicity, suggesting that target antigen of TAK-1 on leukemia cells is the naturally processed WT1 peptide in the context of HLA-A24. TAK-1 did not inhibit colony formation by normal bone marrow cells of HLA-A24-positive individuals. Because WT1 is overexpressed ubiquitously in various types of leukemia cells, but not in normal cells, immunotherapy using WT1 peptide-specific CTL clones should be an efficacious treatment for human leukemia.

IT Major Concepts
Tumor Biology

IT Parts, Structures, & Systems of Organisms
CD8-positive cytotoxic T-lymphocytes: HLA class I-restricted **leukemia** cell lysis, **WT-1 peptide** specific clone, blood and lymphatics, immune system

IT Diseases
leukemia: blood and lymphatic disease, immunotherapy, in-vitro cell study, neoplastic disease

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=> s Stauss H?/au or Gao L?/au
L8        2596 STAUSS H?/AU OR GAO L?/AU

=> s l8 and wt-1
L9           3 L8 AND WT-1

=> dup rem l9
PROCESSING COMPLETED FOR L9
L10          3 DUP REM L9 (0 DUPLICATES REMOVED)

=> dis l10 1-3 ibib abs

L10  ANSWER 1 OF 3  CAPLUS  COPYRIGHT 2001 ACS
ACCESSION NUMBER:        2000:314730  CAPLUS
DOCUMENT NUMBER:         132:333396
TITLE:                   Immunotherapy of cancer using epitopes of WT
                         -1 and GATA-1 transcription factors
INVENTOR(S):             Stauss, Hans Josef; Gao, Liquan
PATENT ASSIGNEE(S):      Imperial College Innovations Limited, UK
SOURCE:                  PCT Int. Appl., 93 pp.
                         CODEN: PIXXD2
DOCUMENT TYPE:           Patent
LANGUAGE:                English
FAMILY ACC. NUM. COUNT:  1
PATENT INFORMATION:

     PATENT NO.        KIND  DATE           APPLICATION NO.  DATE
     ---------------   ----  --------       ---------------  --------
     WO 2000026249      A1   20000511       WO 1999-GB3572   19991102
         W:  AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU,
             CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL,
             IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA,
             MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI,
             SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM,
             AZ, BY, KG, KZ, MD, RU, TJ, TM
         RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE,
             DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF,
             CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
     AU 9964797         A1   20000522       AU 1999-64797    19991102
     EP 1127068         A1   20010829       EP 1999-952682   19991102
         R:  AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
             IE, SI, LT, LV, FI, RO
PRIORITY APPLN. INFO.:                      GB 1998-23897    A  19981102
                                            WO 1999-GB3572   W  19991102
AB   The authors disclose that the peptides RMFPNAPYL or CMTWNQMNL are epitopes
     for cytotoxic T-cells recognizing WT-1 in an
     HLA-A2-restricted manner.  In addn. the peptide is HLMPFPGPLL is a CTL
     epitope of human GATA-1 transcription factor.  The peptides, and
     polynucleotides encoding them, may be useful as cancer vaccines.
REFERENCE COUNT:         3
REFERENCE(S):            (1) Anon; J BIOL CHEM
                         (2) Massachusetts Inst Technology; WO 9107509 A 1991
                             CAPLUS
                         (3) Wistar Inst; WO 9529995 A 1995 CAPLUS

L10  ANSWER 2 OF 3  BIOSIS  COPYRIGHT 2001 BIOSIS
ACCESSION NUMBER:   2001:293494  BIOSIS
DOCUMENT NUMBER:    PREV200100293494
TITLE:              Immunoresponse to Wilms tumor antigen-1 (WT-
                    1) in CML patients.
AUTHOR(S):          Bellantuono, Ilaria (1); Macchiarulo, Eugenio (1);
                    Gao, Liquan (1); Dazzi, Francesco; Cerundolo,
                    Vincenzo; Marley, Stephen B.; Gordon, Myrtle Y.; Goldman,
                    John M.; Stauss, Hans J. (1)
CORPORATE SOURCE:   (1) Immunology, ICSM Hammersmith Hospital, London UK
SOURCE:             Blood, (November 16, 2000) Vol. 96, No. 11 Part 1, pp.
                    144a. print.
                    Meeting Info.: 42nd Annual Meeting of the American Society
                    of Hematology San Francisco, California, USA December
                    01-05, 2000 American Society of Hematology
                    . ISSN: 0006-4971.
DOCUMENT TYPE:      Conference
LANGUAGE:           English
SUMMARY LANGUAGE:   English
AB   We have previously characterised the WT-1 HLA-A2.1
     restricted peptide epitope p126-134 and shown that allorestricted CTLs
     recognising specifically the p126-134 epitope were able efficiently and
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     staining was seen when irrelevant tetramers were used instead. This
     indicates that the tetrameric complexes selectively stain WT-
     1 p126 specific CTLs. CML patients and normal donors were selected
     for the study on the basis of the expression of the HLA-A2.1 allele. PBMC
     from 10 HLA-A2.1 positive CML patients (4 IFN, 3 post-BMT, 2 post-DLI and
     1 HU) and 7 HLA-A2 negative CML controls (4 HU, 2 post-BMT and 1 IFN) were
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triple stained with anti-CD8, anti-CD4 m[redacted]d with the p126 tetrameric complexes. In two out of 10 HLA-A2.1 positive CML cells 0.04% of CD8+ cells stained with the tetramer, equivalent to a frequency of 1:2500 CD8+ T cells. This exceeded the background level of 0.03% in circulating CD8+ cells observed in the control group of HLA-A2 negative CML patients and in HLA-A2 positive PBMC in normal donors (5 donors examined). The present tetramer data are compatible with a lack of CTL responses to the WT-1 p126 epitope or with a low frequency of specific CTLs in CML patients. Ongoing functional experiments will show whether p126 responsive CTLs can be isolated from HLA-A2.1 positive CML patients. These experiments will determine whether the p126 epitope can be used for vaccination strategies aimed at expanding autologous CTLs, or whether strategies based on allo-restricted CTLs will be required to overcome poor autologous T cell responses.

L10 ANSWER 3 OF 3 BIOSIS COPYRIGHT 2001 BIOSIS
ACCESSION NUMBER: 2000:47026 BIOSIS
DOCUMENT NUMBER: PREV200000047026
TITLE: Selective elimination of leukemic progenitors by allorestricted CTL specific for Wilms tumor antigen-1 (**WT-1**.
AUTHOR(S): Bellantuono, I. (1); **Gao, L.**; Elsaesser, A.; Marley, S.; Gordon, M.; Goldman, J.; **Stauss, H.**
CORPORATE SOURCE: (1) Department of Immunology, Hammersmith Hospital, London UK
SOURCE: Blood, (Nov. 15, 1999) Vol. 94, No. 10 SUPPL. 1 PART 1, pp. 532a-533a.
Meeting Info.: Forty-first Annual Meeting of the American Society of Hematology New Orleans, Louisiana, USA December 3-7, 1999 The American Society of Hematology
. ISSN: 0006-4971.
DOCUMENT TYPE: Conference
LANGUAGE: English

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ALL L# QUERIES AND ANSWER SETS ARE DELETED AT LOGOFF
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Search Results - Record(s) 1 through 10 of 11 returned.

☐ 1. Document ID: US 6261535 B1

L10: Entry 1 of 11 File: USPT Jul 17, 2001

US-PAT-NO: 6261535
DOCUMENT-IDENTIFIER: US 6261535 B1

TITLE: Diagnostic methods for targeting the vasculature of solid tumors

DATE-ISSUED: July 17, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Thorpe; Philip E.	Dallas	TX		
Burrows; Francis J.	San Diego	CA		

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
The University of Texas System Board of Regents	Austin	TX			02

APPL-NO: 9/ 207277
DATE FILED: December 8, 1998

PARENT-CASE:
The present application is a continuing application based upon application Ser. No. 08/350,212, filed Dec. 5, 1994 (now issued as U.S. Pat. No. 5,965,132), which is a continuation-in-part of U.S. patent application Ser. No. 08/205,330, filed Mar. 2, 1994 now U.S. Pat. No. 5,855,866; which is a continuation-in-part of U.S. patent application Ser. No. 07/846,349, filed Mar. 5, 1992. The entire text and figures of which disclosures are specifically incorporated by reference herein without disclaimer.

INT-CL: [7] A61K 51/10, A61K 39/395, C07K 16/00
US-CL-ISSUED: 424/1.49; 424/1.49, 424/9.32, 424/9.341, 424/9.36, 424/178.1, 424/179.1, 424/9.42, 424/186.1, 424/130.1, 424/133.1, 424/183.1, 424/142.1, 424/145.1, 424/181.1, 424/155.1, 424/9.34, 424/9.323, 424/156.1, 530/391.7, 530/391.3, 530/388.1, 530/388.15, 530/388.22, 530/387.1
US-CL-CURRENT: 424/1.49; 424/130.1, 424/133.1, 424/142.1, 424/145.1, 424/155.1, 424/156.1, 424/178.1, 424/179.1, 424/181.1, 424/183.1, 424/186.1, 424/9.32, 424/9.323, 424/9.34, 424/9.341, 424/9.36, 424/9.42, 530/387.1 , 530/388.1, 530/388.15, 530/388.22, 530/391.3, 530/391.7
FIELD-OF-SEARCH: 424/1.49, 424/178.1, 424/9.32, 424/9.341, 424/9.34, 424/9.323, 424/179.1, 424/156.1, 424/183.1, 424/142.1, 424/9.36, 424/9.42, 530/387.1, 530/388.1, 530/388.22, 530/388.15, 530/391.3

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
4926869	May 1990	Rubin et al.	128/654
5191067	March 1993	Lappi et al.	530/399
5308622	May 1994	Casscells et al.	424/422
5354778	October 1994	Ray et al.	514/592
5576288	November 1996	Lappi et al.	514/2
5586297	December 1996	Jacobsone et al.	435/29
5660827	August 1997	Thorpe et al.	424/152.1
5677181	October 1997	Parish	435/332
5679637	October 1997	Lappi et al.	514/2
5776427	July 1998	Thorpe et al.	424/1.49
5855866	January 1999	Thorpe et al.	424/1.49
5863538	January 1999	Thorpe et al.	424/136.1
5874081	February 1999	Parish	424/130.1
5942602	August 1999	Wels et al.	530/388.22
5965132	October 1999	Thorpe et al.	424/149
6037329	March 2000	Baird et al.	514/44
6051230	April 2000	Thorpe et al.	424/178.1
6107090	August 2000	Bander	435/344
6129915	October 2000	Wels et al.	424/143.1
6136311	October 2000	Bander	424/155.1
6150508	November 2000	Murphy et al.	530/387.1

FOREIGN PATENT DOCUMENTS

FOREIGN-PAT-NO	PUBN-DATE	COUNTRY	US-CL
WO 97/45544	December 1997	WOX	
WO 99/58570	November 1999	WOX	

OTHER PUBLICATIONS

Denekamp, J. Prog. appl. Microcirc. vol. 4, 28-38, 1984.*
Klagsbrun, Ann. Rev. Physiol, 53;217-239, 1990.*
Heimbrook et al., "Transforming growth factor .alpha.-Pseudomonas exotoxin fusion protein prolongs survival of nude mice bearing tumor xenografts," Proc. Natl. Acad. Sci. USA, 87:4697-4701, 1990.
Hirota et al., "Suppression of an epidermal growth factor receptor-hyperproducing tumor by an immunotoxin conjugate of gelonin and a monoclonal anti-epidermal growth factor receptor antibody," Cancer Research, 49:7106-7109, 1989.
International Search Report for WO99/58570 (PCT/EP99/03210), republished Mar. 16, 2000.

ART-UNIT: 169
PRIMARY-EXAMINER: Dudash; Diana
ASSISTANT-EXAMINER: Sharareh; Shahnam
ATTY-AGENT-FIRM: Williams, Morgan and Amerson

ABSTRACT:

The present invention relates generally to methods and compositions for targeting the vasculature of solid tumors using immunological- and growth factor-based reagents. In particular aspects, antibodies carrying diagnostic or therapeutic agents are targeted to the vasculature of solid tumor masses through recognition of tumor vasculature-associated antigens, such as, for example, through endoglin binding, or through the specific induction of endothelial cell

surface antigens on vascular endothelial cells in solid tumors.

27 Claims, 37 Drawing figures

☐ 2. Document ID: US 6190661 B1

L10: Entry 2 of 11 File: USPT Feb 20, 2001

US-PAT-NO: 6190661
DOCUMENT-IDENTIFIER: US 6190661 B1

TITLE: Methods and compositions for the use of apurinic/apyrimidinic endonucleases

DATE-ISSUED: February 20, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kelley; Mark R.	Zionsville	IN		
Duquid; John	Brownsburg	IN		
Eble; John	Indianapolis	IN		

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Advanced Research & Technology Institute	Bloomington	IN			02

APPL-NO: 9/ 336890
DATE FILED: June 18, 1999

PARENT-CASE:
This is a divisional of application Ser. No. 08/872,719, filed Jun. 11, 1997, now U.S. Pat. No. 5,919,643, which claims priority to provisional U.S. patent application Ser. Nos. 60/019,561, filed Jun. 11, 1996 and 60/019,602, filed June 11, 1996. The entire text of each of the above-referenced disclosures is specifically incorporated by reference herein without disclaimer.

INT-CL: [7] A61K 39/395, A61K 31/711
US-CL-ISSUED: 424/139.1; 514/44, 436/63, 436/64
US-CL-CURRENT: 424/139.1; 436/63, 436/64, 514/44
FIELD-OF-SEARCH: 514/44, 424/139.1, 436/63, 436/64

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
4618585	October 1986	Chan	435/240
4633886	January 1987	Bucaro, Jr.	128/749
4666845	May 1987	Mattes et al.	435/240
4862899	September 1989	Bucaro	128/749
5171666	December 1992	Gutowski et al.	530/387.3
5306811	April 1994	Duffy	530/412
5320956	June 1994	Willingham et al.	435/172.2
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ART-UNIT: 162
PRIMARY-EXAMINER: Patterson, Jr.; Charles L.
ATTY-AGENT-FIRM: Fulbright & Jaworski

ABSTRACT:

Disclosed are methods and compositions for identifying, monitoring and treating premalignant and malignant conditions in a human subject. The present invention further discloses methods and compositions for determining cells undergoing apoptosis, and for increasing the efficacy of a cancer therapy. The methods involve the use of apurinic/apyrimidinic endonuclease (APE), independently, as a marker for (pre)malignant conditions and for apoptosis. Also described are polyclonal antibody preparations for use in methods for detecting APE and methods for modulating expression susceptibility of cells to apoptosis.

12 Claims, 57 Drawing figures

☐ 3. Document ID: US 6070126 A

L10: Entry 3 of 11 File: USPT May 30, 2000

US-PAT-NO: 6070126
DOCUMENT-IDENTIFIER: US 6070126 A

TITLE: Immunobiologically-active linear peptides and method of identification

DATE-ISSUED: May 30, 2000

INVENTOR-INFORMATION:

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Johnston; Dennis A.	Houston	TX		

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
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APPL-NO: 9/ 097078
DATE FILED: June 12, 1998

PARENT-CASE:
CROSS REFERENCE TO RELATED APPLICATION This application claims the benefit of U.S. Provisional Application Ser. No. 60/049,613 filed on Jun. 13, 1997.

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US-CL-ISSUED: 702/19; 530/300
US-CL-CURRENT: 702/19; 530/300
FIELD-OF-SEARCH: 530/300, 702/19

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
4554101	November 1985	Hopp	260/112.5
5807978	September 1998	Kokolus et al.	530/300

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ART-UNIT: 163
PRIMARY-EXAMINER: Carlson; Karen Cochrane
ATTY-AGENT-FIRM: Fuierer; Marianne Ellis; Howard M.

ABSTRACT:

The present invention relates to identifying protein epitopes and more particularly to a novel method for identifying, determining the location, optimal length of amino acid residues and immunobiological potency of protein epitopes by applying a custom negative cosine function fit algorithm to a protein hydropathy scale. This fit analysis is supplemented with experimental immunobiological data. The amino acid sequence of the protein epitopes of the present invention exhibit a hydrophobic-hydrophilic-hydrophobic hydropathy pattern of an approximately fixed length in a given protein.

8 Claims, 6 Drawing figures

☐ 4. Document ID: US 6051230 A

L10: Entry 4 of 11 File: USPT Apr 18, 2000

US-PAT-NO: 6051230
DOCUMENT-IDENTIFIER: US 6051230 A

TITLE: Compositions for targeting the vasculature of solid tumors

DATE-ISSUED: April 18, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Thorpe; Philip E.	Dallas	TX		
Burrows; Francis J.	San Diego	CA		

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Board of Regents, The University of Texas System	Austin	TX			02

APPL-NO: 8/ 457869
DATE FILED: June 1, 1995

PARENT-CASE:
The present application is a division of copending application Ser. No. 08/350,212, filed Dec. 5, 1994, which is continuation-in-part of U.S. patent application Ser. No. 08/205,330, filed Mar. 2, 1994 (U.S. Pat. No. 5,855,866); which is a continuation-in-part of U.S. Pat. application Ser. No. 07/846,349, filed Mar. 05, 1992 (now abandoned). The entire text and figures of which disclosures are specifically incorporated by reference herein without disclaimer.

INT-CL: [7] A61K 39/395, C07K 16/00
US-CL-ISSUED: 424/178.1; 424/179.1, 424/180.1, 424/181.1, 424/182.1, 424/183.1, 530/387.1, 530/387.7, 530/388.1, 530/388.2
US-CL-CURRENT: 424/178.1; 424/179.1, 424/180.1, 424/181.1, 424/182.1, 424/183.1, 530/387.1, 530/387.7, 530/388.1, 530/388.2
FIELD-OF-SEARCH: 424/183.1, 424/178.1, 424/179.1, 424/180.1, 424/181.1, 424/182.1, 530/387.1, 530/387.7, 530/388.1, 530/388.2

PRIOR-ART-DISCLOSED:

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PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
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UTSD:452; U.S. application No. 08/457,487, filed Jun. 1, 1995; Divisional of UTSD:430.
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Allowed Claims of U.S. application No. 08/327,709, Dvorak.
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ABSTRACT:

The present invention relates generally to methods and compositions for targeting the vasculature of solid tumors using immunological- and growth factor-based reagents. In particular aspects, antibodies carrying diagnostic or therapeutic agents are targeted to the vasculature of solid tumor masses through recognition of tumor vasculature-associated antigens, such as, for example, through endoglin binding, or through the specific induction of endothelial cell surface antigens on vascular endothelial cells in solid tumors.

61 Claims, 37 Drawing figures

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ART-UNIT: 166
PRIMARY-EXAMINER: Kight; John
ASSISTANT-EXAMINER: Hartley; Michael G.
ATTY-AGENT-FIRM: Arnold, White & Durkee

ABSTRACT:

The present invention relates generally to methods and compositions for targeting the vasculature of solid tumors using immunological- and growth factor-based reagents. In particular aspects, antibodies carrying diagnostic or therapeutic agents are targeted to the vasculature of solid tumor masses through

recognition of tumor vasculature-associated antigens, such as, for example, through endoglin binding, or through the specific induction of endothelial cell surface antigens on vascular endothelial cells in solid tumors.

16 Claims, 0 Drawing figures

Full | Title | Citation | Front | Review | Classification | Date | Reference | KWIC | Draw. Desc | Image

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☐ 6. Document ID: US 5919643 A

L10: Entry 6 of 11 File: USPT Jul 6, 1999

US-PAT-NO: 5919643
DOCUMENT-IDENTIFIER: US 5919643 A

TITLE: Methods and compositions for the use of apurinic/apyrimidinic endonucleases

DATE-ISSUED: July 6, 1999

INVENTOR-INFORMATION:

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Duguid; John	Brownsburg	IN		
Eble; John	Indianapolis	IN		

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Advanced Research & Technology Institute	Bloomington	IN			02

APPL-NO: 8/ 872719
DATE FILED: June 11, 1997

PARENT-CASE:
This application in is a continuation-in-part of U.S. Provisional Patent Application No. 60/019,561, filed Jun. 11, 1996 and U.S. Provisional Patent Application No. 60/019,602, filed Jun. 11, 1996. The entire text of each of the above-referenced disclosures is specifically incorporated by reference herein without disclaimer.

INT-CL: [6] C12Q 1/44, C12N 9/22
US-CL-ISSUED: 435/19; 435/199
US-CL-CURRENT: 435/19; 435/199
FIELD-OF-SEARCH: 435/19, 435/199

PRIOR-ART-DISCLOSED:

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PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
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4633886	January 1987	Bucaro, Jr.	128/749
4666845	May 1987	Mattes et al.	435/240
4862899	September 1989	Bucaro	128/749
5171666	December 1992	Gutowski et al.	530/387.3
5306811	April 1994	Duffy	530/412
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5330972	July 1994	Cope	514/2
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ART-UNIT: 162
PRIMARY-EXAMINER: Patterson, Jr.; Charles L.
ATTY-AGENT-FIRM: Arnold, White & Durkee

ABSTRACT:

Disclosed are methods and compositions for identifying, monitoring and treating premalignant and malignant conditions in a human subject. The present invention further discloses methods and compositions for determining cells undergoing apoptosis, and for increasing the efficacy of a cancer therapy. The methods involve the use of apurinic/apyrimidinic endonuclease (APE), independently, as a marker for (pre)malignant conditions and for apoptosis. Also described are polyclonal antibody preparations for use in methods for detecting APE and methods for modulating expression susceptibility of cells to apoptosis.

15 Claims, 57 Drawing figures

Full | Title | Citation | Front | Review | Classification | Date | Reference | KWIC | Draw Desc | Image

☐ 7. Document ID: US 5863538 A

L10: Entry 7 of 11 File: USPT Jan 26, 1999

US-PAT-NO: 5863538
DOCUMENT-IDENTIFIER: US 5863538 A

TITLE: Compositions for targeting the vasculature of solid tumors

DATE-ISSUED: January 26, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Thorpe; Philip E.	Dallas	TX		
Burrows; Francis J.	San Diego	CA		

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Board of Regents, The University of Texas System	Austin	TX			02

APPL-NO: 8/ 457487
DATE FILED: June 1, 1995

PARENT-CASE:
The present application is a division of copending application Ser. No. 08/350,212, filed Dec. 5, 1994, which is a continuation-in-part of U.S. patent application Ser. No. 08/205,330, filed Mar. 2, 1994 now U.S. Pat. No. 5,855,866; which is a continuation-in-part of U.S. patent application Ser. No. 07/846,349, filed Mar. 05, 1992 (now abandoned). The entire text and figures of which disclosures are specifically incorporated by reference herein without disclaimer.

INT-CL: [6] A61K 39/395, C12P 21/08, C07K 16/00
US-CL-ISSUED: 424/136.1; 424/138.1, 424/141.1, 424/154.1, 424/155.1, 424/172.1, 424/173.1, 424/174.1, 424/181.1, 530/388.22, 530/387.7, 530/387.3
US-CL-CURRENT: 424/136.1; 424/138.1, 424/141.1, 424/154.1, 424/155.1, 424/172.1, 424/173.1, 424/174.1, 424/181.1, 530/387.3, 530/387.7, 530/388.22
FIELD-OF-SEARCH: 424/136.1, 424/138.1, 424/141.1, 424/154.1, 424/155.1, 424/172.1, 424/173.1, 424/174.1, 424/181.1, 530/387.3, 530/387.7, 530/388.22

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ABSTRACT:

The present invention relates generally to methods and compositions for targeting the vasculature of solid tumors using immunological- and growth

factor-based reagents. In particular aspects, antibodies carrying diagnostic or therapeutic agents are targeted to the vasculature of solid tumor masses through recognition of tumor vasculature-associated antigens, such as, for example, through endoglin binding, or through the specific induction of endothelial cell surface antigens on vascular endothelial cells in solid tumors.

23 Claims, 37 Drawing figures

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PARENT-CASE:
The present application is a continuation-in-part of U.S. patent application Ser. No. 07/846,349, filed Mar. 05, 1992, now abandoned. The entire text and figures of which disclosure is specifically incorporated by reference herein without disclaimer.

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ART-UNIT: 166
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ABSTRACT:

The present invention relates generally to methods and compositions for targeting the vasculature of solid tumors using immunologically-based reagents. In particular aspects, antibodies carrying diagnostic or therapeutic agents are targeted to the vasculature of solid tumor masses through recognition of tumor vasculature-associated antigens, such as, for example, through endoglin binding, or through the specific induction of endothelial cell surface antigens on

vascular endothelial cells in solid tumors.

26 Claims, 19 Drawing figures

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TITLE: Immunogenic peptides of prostate specific antigen

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5273743	December 1993	Ahlem et al.	N/A
5310687	May 1994	Bard et al.	N/A

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WO 95/30758	November 1995	WOX	

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PRIMARY-EXAMINER: Scheiner; Toni R.
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ABSTRACT:

Peptides derived from prostate specific antigen (PSA) that correspond to the immunodominant epitopes found in the native antigen are disclosed. These peptides were identified using a method that predicts continuous, immunodominant epitopes. Anti-PSA antibodies, methods for their production and their use in diagnostic assays also are disclosed.

10 Claims, 1 Drawing figures

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TITLE: Methods for targeting the vasculature of solid tumors

DATE-ISSUED: July 7, 1998

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APPL-NO: 8/ 456495
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PARENT-CASE:
The present application is a division of copending application Ser. No. 08/350,212, filed Dec. 5, 1994, which is a continuation-in-part of co-pending U.S. patent application Ser. No. 08/205,330, filed Mar. 2, 1994; which is a continuation-in-part of U.S. patent application Ser. No. 07/846,349, filed Mar. 05, 1992, now abandoned. The entire text and figures of which disclosures are specifically incorporated by reference herein without disclaimer.

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FIELD-OF-SEARCH: 424/1.49, 424/1.69, 424/138.1, 424/143.1, 424/145.1, 424/179.1, 424/181.1, 424/183.1, 424/178.1, 424/93.21, 530/387.2, 530/387.3, 530/388.22, 530/388.73, 530/389.1, 530/391.7, 530/391.9

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5403713	April 1995	Bevilacqua et al.	435/7.1
5632991	May 1997	Gimbrone, Jr.	424/178.1

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ABSTRACT:

The present invention relates generally to methods and compositions for targeting the vasculature of solid tumors using immunological- and growth factor-based reagents. In particular aspects, antibodies carrying diagnostic or therapeutic agents are targeted to the vasculature of solid tumor masses through recognition of tumor vasculature-associated antigens, such as, for example, through endoglin binding, or through the specific induction of endothelial cell surface antigens on vascular endothelial cells in solid tumors.

23 Claims, 27 Drawing figures

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ABSTRACT:

Disclosed are antibodies that specifically bind to endoglin. Conjugates of the antibodies linked to diagnostic or therapeutic agents are also provided. Methods of using the antibodies and conjugates are also disclosed, including methods of targeting the vasculature of solid tumors through recognition of the tumor vasculature-associated antigen, endoglin.

30 Claims, 37 Drawing figures